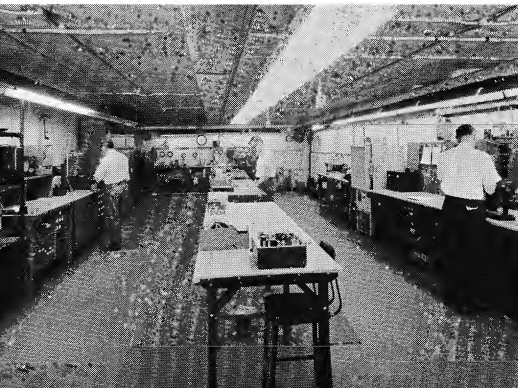


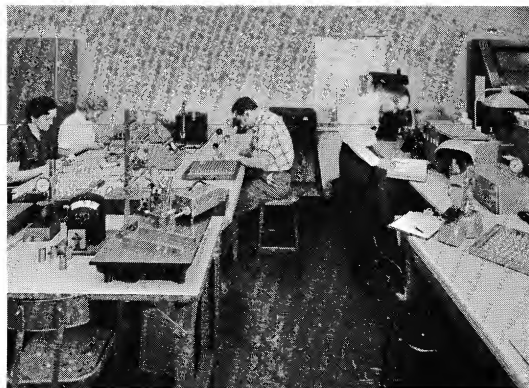
MODERN FACILITIES



Qualified and experienced engineers, plus facilities for complete research and development of the product.



Model-shop facilities for prompt prototype delivery; production machine shop equipment for quantity production.



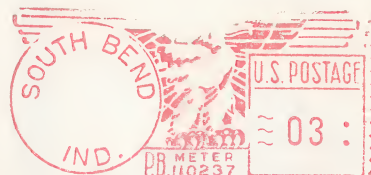
Government approved quality control facilities for uniform and precise material control throughout production run.

KOONTZ WAGNER
ELECTRIC COMPANY INCORPORATED

516 N. MICHIGAN STREET • SOUTH BEND, IND. 46601 • PHONE: (AREA CODE 219) 232-2051

KOONTZ-WAGNER ELECTRIC CO., INC.
516 North Michigan Street
South Bend, Indiana, 46601

BLK. RT



IMPORTANT NEW SOLENOID DEVELOPMENT...

B	
	Push
5	1.475
5	1.795
5	2.115
5	2.135
5	2.630
0	2.945
5	3.185
B (Pull)	
25	1.250

**PLUS NEW, EASY-TO-USE
SOLENOID SELECTOR CHART**

Mr. T. Nelson, Sys. Engr.
Interlocking Systems Company
Box 1546
Poughkeepsie, N. Y. 12603

SOLE NOISES.



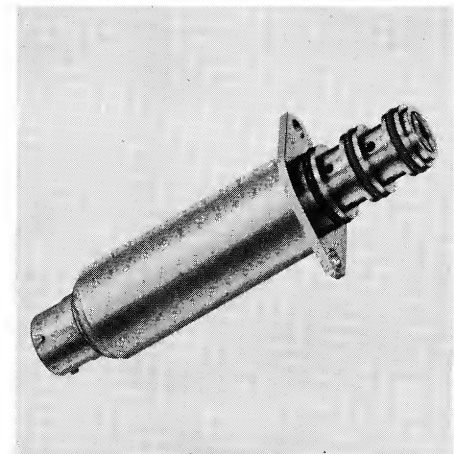
Ray Schmidt, Quality Control Manager, checks quality of part going through inspection area.

Our quality control policies and procedures are based on a background of supplying the Military for many years. Incoming material and final assemblies are subjected to quality approval. Complete reliability of the finished product is assured. We make no exceptions to these policies, and we have the 100% backing of top management. In addition, we maintain a constant vigil for ways to improve inspection methods and quality control procedures. Such measures have kept our products competitive and our customers very well satisfied.

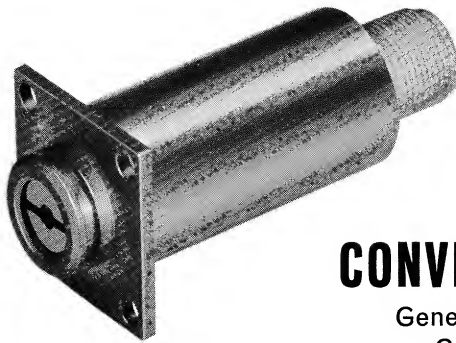
Ray Schmidt
Manager—Quality Control

This annular-mount solenoid valve was designed and built as a product to meet a special set of application requirements. The valve is a typical three-way annular design. The solenoid was required to latch positively in either direction, and incorporates design features of our earlier magnetically-latched solenoids.

Many years of experience in engineering special solenoids assured the success of this design. Extensive test data on file, on both special designs and standard units, helped our engineering personnel furnish prints and prototypes at a reasonable cost and with excellent results.

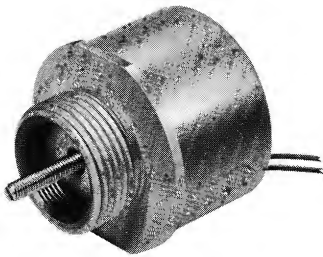


SOLENOIDS



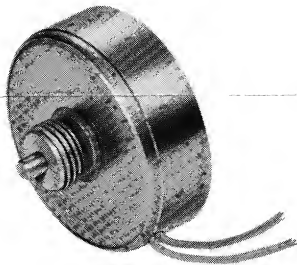
CONVENTIONAL

General Purpose
Cylindrical



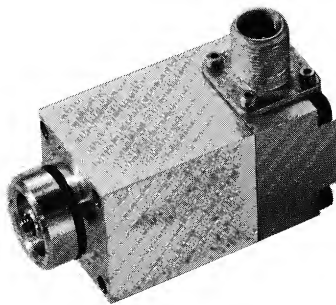
COMPACT

General Purpose • Short



WAFER®

Short Stroke • Flat



MODULAR

- Long Life
- Fast Cycle
- Laminated, Low-loss Core
- Dry Coil for Pressure Application



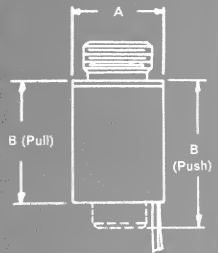
DRIVER CONTROL

BASIC SOLENOID — Direct Current

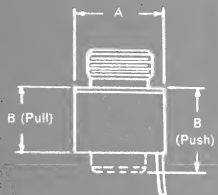
On Inquiries or Orders Specify

(1) Series No. (2) Force and Stroke (3) Volts (4) Ambient (5) Pressure

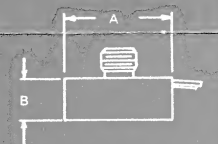
Series	Force (lbs.)—Stroke (in.)—75°F				A		B	
	.015"	.050"	.150"	.250"			Pull	Push
8002	6.0 #	2.5 #	0.5 #	0.2 #	.750	1.195	1.475	
8005	11.0	4.0	2.0	1.0	1.000	1.375	1.795	
8010	17.0	8.0	2.5	1.5	1.125	1.695	2.115	
8015	32.0	15.0	5.0	3.0	1.312	1.715	2.135	
8020	43.0	21.5	7.5	4.0	1.500	2.075	2.630	
8025	75.0	40.0	12.5	6.5	1.750	2.260	2.945	
8030	95.0	60.0	18.0	11.5	2.000	2.535	3.185	



8040	8.5 #	2.5 #	0.5 #	0.2 #	1.000	.825	1.250	
8045	32.5	12.5	2.5	1.5	1.500	1.075	1.630	
8050	75.0	34.0	10.5	5.5	2.000	1.350	2.000	

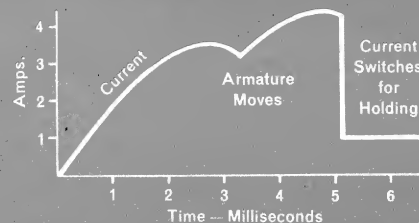
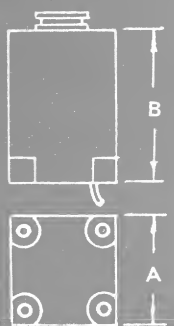


Series	Force (lbs.)—Stroke (in.)—75°F				A		B	
	.010"	.015"	.020"	.030"			Pull	Push
8060	5.5 #	3.0 #	2.0 #	0.5 #	1.190	.500	.500	
8070	12.0	7.0	4.5	1.5	1.690	.580	.580	
8080	40.0	25.0	12.5	6.5	2.250	.750	.750	



Series	Duty	Force (lbs.)		A		B	
		.015	.030			Pull	Push
8105 DC	Cont.	4.0	1.0	1.125	2.010	1.695	
	50% on	7.5	2.5				
	10% on	20.0	12.0				
8110 DC	Cont.	8.0	2.0	1.500	2.350	2.130	
	50% on	16.0	4.0				
	10% on	45.0	20.0				
8160 AC	Cont.	4.0	3.0	1.500	2.890	2.670	
	50% on	5.0	4.0				
	10% on	6.0	5.0				

Basic Fixed Stroke



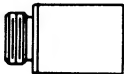
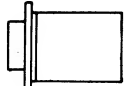
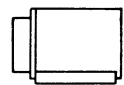
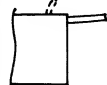
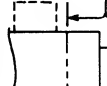
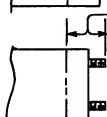

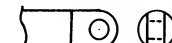
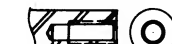
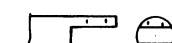
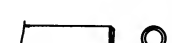
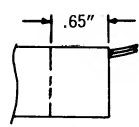
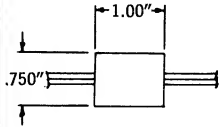
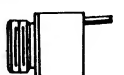
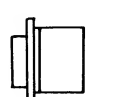

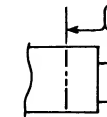


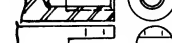
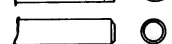

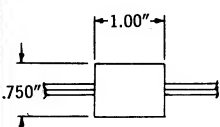

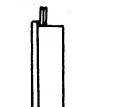


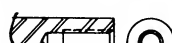
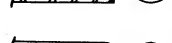
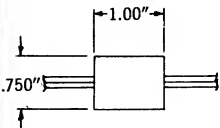

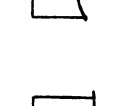


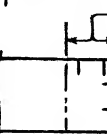



A typical driver application using Series 8110 with Type B Driver. 20# load moves .020" in 5 MS. Current then reduces to low value, holding load continuously.

MANUFACTURING DIVISION OF

KOONTZ-WAGNER
ELECTRIC COMPANY INCORPORATED

516 N. MICHIGAN ST.
SOUTH BEND, INDIANA

STANDARD BASIC UNITS • PRECISION SEALED DESIGN

MOUNTING	LEAD TERMINATION	ARMATURE TERMINATION	ALTERNATING CURRENT Rectifier Package
(6) Mounting	(7) Leads	(8) Armature	(9) Package, If A.C.
<p>Thread </p> <p>Flange </p> <p>Bracket </p>	<p>Leads </p> <p>Add 1.55" Max. to "B" Pull Dim.</p> <p>Connector </p> <p>Add 1.30" Max. to "B" Pull Dim.</p> <p>Terminals </p>	<p>A </p> <p>B </p> <p>C </p> <p>D </p> <p>E </p>	<p> Rectifiers in can</p> <p> Rectifiers in lead assembly</p>
<p>Thread </p> <p>Flange </p>	<p>Leads </p> <p>Add 1.40" Max. to "B" Pull Dim.</p> <p>Connector </p>	<p>A </p> <p>B </p> <p>C </p> <p>D </p> <p>E </p>	<p> Available in lead assembly only</p>
<p>Thread </p> <p>Flange </p>	<p>Leads </p>	<p>A </p> <p>C </p> <p>E </p>	<p> Available in lead assembly only</p>
<p>Thread </p> <p>Flange </p>	<p>Leads </p> <p>Add 1.25" Max. to "B" Dim.</p> <p>Connector </p> <p>Add 1.00" Max. to "B" Dim.</p> <p>Conduit 1/2 NPT </p>	<p>A </p> <p>B </p> <p>E </p>	<p>The MODULAR limited inductance DC solenoid is designed for fast response particularly where intermittent power application permits a high current coil.</p> <p>A modification of the DC solenoid is used directly on AC without rectification.</p>
<p>Type A</p> <ul style="list-style-type: none"> • Low Cost • Capacitor Type Cut-off • Min. Time Between Cycles—200 MS • Polarized • Solid State Potted Components 	<p>Type B</p> <ul style="list-style-type: none"> • Moderate Cost • Adjustable Sharp Cut-off • Min. Time Between Cycles—50 MS • Polarized • Solid State Potted Components 	<p>Type C</p> <ul style="list-style-type: none"> • High Ambient Operation • Sharp Cut-off • Min. Time Between Cycles—25-50 MS • Polarized • Solid State—High Temperature Potted Components 	<p>Driver Control can be used with the 10% intermittent Modular DC Solenoid to give fast response. It can be used with any intermittent DC solenoid to give high force in a small package with low continuous current drain. Special controls are available for time delay and other applications.</p>

A complete line designed to offer, in basically standardized units, the features most requested in Industrial Automation... Aerospace... Computers. The first complete line to offer solid and laminated sealed construction, with SOLID STATE control as required.

REQUEST FOR INFORMATION

Send additional information on the following solenoids:

SERIES	Fill in or Check	Mounting	Leads	Armature
8002	<input type="checkbox"/> Push <input type="checkbox"/>	Thread <input type="checkbox"/> Flange <input type="checkbox"/> Bracket <input type="checkbox"/>	Leads <input type="checkbox"/> Connector <input type="checkbox"/> End <input type="checkbox"/> Side <input type="checkbox"/> Terminals <input type="checkbox"/>	A-Threads <input type="checkbox"/> B-Clevis (male) <input type="checkbox"/> C-Hole <input type="checkbox"/> D-Clevis (female) <input type="checkbox"/> E-Pin <input type="checkbox"/>
8005	<input type="checkbox"/> Pull <input type="checkbox"/>			
8010	<input type="checkbox"/>			
8015	Power: _____ VDC			
8020	_____ VAC			
8025	<input type="checkbox"/> rectified	Thread <input type="checkbox"/> Flange <input type="checkbox"/>	Leads <input type="checkbox"/> Connector <input type="checkbox"/>	A-Threads <input type="checkbox"/> C-Hole <input type="checkbox"/> E-Pin <input type="checkbox"/>
8030	<input type="checkbox"/>			
8040	Force _____ lbs.			
8045	Stroke _____ in.			
8050	<input type="checkbox"/>			
8060	Continuous <input type="checkbox"/>	Thread <input type="checkbox"/> Flange <input type="checkbox"/>	Leads <input type="checkbox"/>	A-Threads <input type="checkbox"/> C-Hole <input type="checkbox"/> E-Pin <input type="checkbox"/>
8070	Intermittent <input type="checkbox"/>			
8080	_____ on _____ off			
8105	Ambient _____ Deg F.			
8110	Pressure _____ psi			
8160	<input type="checkbox"/>	Thread <input type="checkbox"/> Flange <input type="checkbox"/>	Leads <input type="checkbox"/> Connector <input type="checkbox"/> Conduit <input type="checkbox"/>	A-Threads <input type="checkbox"/> B-Clevis <input type="checkbox"/> E-Pin <input type="checkbox"/>

Driver Control A ☐
 B ☐
 C ☐

To be used with Series: 8105 ☐
 8110 ☐

Other _____

Send price information on quantities: _____

Send information on special application: _____

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BUSINESS REPLY MAIL

First Class Permit No. 440, South Bend, Ind.

KOONTZ-WAGNER ELECTRIC CO., INC.

516 North Michigan Street

SOUTH BEND, INDIANA 46601

Attention: Mr. Brent Kumm, V. P.

